



# **SEZO CL**



# **POTENTIAL USE CASES**



#### WAREHOUSES

#### **OFFICE BUILDINGS**

The **SEZO CL** device enables controlling of the environment on the premises to *ensure optimal conditions for storage*. It is especially important in case of *FMCG (Fast Moving Consumer Goods)* such as packaged foods, pharmaceuticals or toiletries, where the right temperature, as well as levels of humidity and luminosity need to be ensured.

**Facility managers** easily leverage **SEZO CL** and its features because the *installation process is seamless*. Thanks to the fact that the device is compact and battery-powered, all that needs to be done is to install it (by gluing or screwing it on) in a place where you want to monitor the temperature, humidity level or light and the device is ready for operation.

**SEZO CL** is capable of sending data via LoRaWAN to Orange Live Objects platform.

**SEZO CL**, thanks to its ability to measure such environmental parameters as temperature and humidity, is leveraged by **office managers** to ensure not only comfortable, but also *stable working conditions for the employees*. Each parameter is configurable via USB and can therefore be adjusted to any specific needs.

**SEZO CL**, together with its ability to measure luminosity, enables control of the lighting system in the office. **The building manager** configures the devices so that when the luminosity goes below a certain predefined level, the lighting switches on automatically in certain parts of the building. In this way, **SEZO CL** ensures optimal lighting conditions for office workers.

The device has an alarm threshold configuration for all measured parameters and is *capable of sending data via LoRaWAN* to Orange Live Objects platform.





# **POTENTIAL USE CASES**



### **HEALTHCARE FACILITIES**



#### **GREENHOUSES**

**SEZO CL** makes healtcare facilities such as hospitals or private clinics more comfortable for the users.

**Building management** levarages **SEZO CL** to control the temperature, humidity and luminosity on the premises. Thanks to the possibility of configuring alarm thresholds, **building managers** determine the optimal conditions necessary to ensure the comfort of people staying on the premises. This is important not only for the hospital or clinic staff, but above all for the patients - the room conditions have a significant impact on their health and well-being.

The device is capable of *sending data via LoRaWAN* to the Orange Live Objects platform.

The **SEZO CL** device is used by greenhouse owners.

**SEZO CL** helps ensuring that a certain *temperature, humidity and light level* within the greenhouse is maintained. This, in turn, helps *preserve a climate within the greenhouse* optimal for the plants requiring such regulated conditions.

Thanks to the high sensitivity of the device and the accuracy of the measurements, *the environment can be very precisely controlled*.

The device is *compact and battery-operated*, which makes it exceptionally easy to install - also without using any screws.

The **SEZO CL** device sends data via LoRaWAN to the Orange Live Objects platform, which offers *an easy and transparent way to monitor* and analyse the data.





# **SEZO CL - TECHNICAL SPECIFICATIONS**

DESCRIPTION	<ul> <li>Compact low-power sensor device measuring temperature, humidity and luminosity</li> <li>LoRaWAN networking technology for long transmission range and very long battery life (up to 3 years on a single battery)</li> <li>Made for indoor condition monitoring in human-occupied spaces</li> <li>USB configuration</li> <li>Every unit is shipped with individual test report confirming all specified parameters</li> <li>Integrated with Orange Live Objects Platform</li> </ul>
MEASURED PARAMETERS	Temperature, Humidity, Luminosity
OPERATING TEMPERATURE	-30 ÷ 60°C
MEASUREMENT RANGE AND ACCURACY	- Temperature: -30 ÷ 60°C, typ. ±0,3°C, max ±1°C - Humidity: 0 ÷ 100%, typ. ±2%, max. ±5% @25°C @20 ÷80% RH - Luminosity: 0 ÷ 1000 lx, typ. ±10%, max ±35% @500lx
COMMUNICATION PROTOCOL	LoRaWAN v1.0.2, Class A device
FREQUENCY AND TRANSMISSION POWER	868 MHz, maximum 14 dBm
DATA TRANSMISSION INTERVAL	Default 15 minutes (configurable) or event-triggered
BATTERY	1/2 AA 3.6V (1200 mAh)
ENCLOSURE	IP54, ABS
WEIGHT	40 g
PRODUCT DIMENSIONS	Length 66 mm, width 50 mm, height 25 mm





## **About WiRan**

WiRan Sp. z o.o. is a B2B company providing R&D services to national and international clients in the space, maritime, railway, industrial and IoT sectors. Our expertise lies in Radio Frequency and Wireless technologies, the development of electronic parts, fast product prototyping, feasibility studies, certifications and EMC testing. Founded in 2002, we are looking back at soon to be 20 years as a HW design office - supporting our diverse clients from the conception through prototyping to product quality development of electronic devices You can find our designs mounted around Tricity (air quality measuring systems), and soon also in space (satellite communication modules), just to name a few.

WiRan offices and laboratories are currently located in Gdynia, Poland.

# About SEZO

SEZO is a suite of products that can be best described as long range, customizable IoT solutions. SEZO products are based on LoRaWAN<sup>™</sup> and LTE-M / NB-IoT technology and can be customized by clients, based on their needs.